PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference P595-C4285	FOR FURTHER ACTION	See item 4 below				
International application No. PCT/JP2004/017306	International filing date (day/month/year) 19 November 2004 (19.11.2004)	Priority date (day/month/year) 19 November 2003 (19.11.2003)				
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237						
Applicant KEIO UNIVERSITY						

	······					
1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).					
2.	This REPORT consists of a total of 4 sheets, including this cover sheet.					
	In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.					
3.	This report contains indications relating to the following items:					
	Box No. I	Basis of the report				
	Box No. II	Priority				
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
	Box No. IV	Lack of unity of invention				
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
	Box No. VI	Certain documents cited				
	Box No. VII	Certain defects in the international application .				
	Box No. VIII	Certain observations on the international application				
4.	The International Bureau will conot, except where the applicant date (Rule 44bis .2).	ommunicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but makes an express request under Article 23(2), before the expiration of 30 months from the priority				

Date of issuance of this report 27 July 2006 (27.07.2006)

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PATENT COOPERATION TREATY

TRANSLATION INTERNATIONAL SEARCHING AUTHORITY To: WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) Applicant's or agent's file reference FOR FURTHER ACTION P595-C4285 See paragraph 2 below International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/JP2004/017306 19.11.2004 19.11.2003 International Patent Classification (IPC) or both national classification and IPC Applicant KEIO UNIVERSITY This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Priority Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application **FURTHER ACTION** If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. Name and mailing address of the ISA/JP Authorized officer Facsimile No. Telephone No.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2004/017306

Вох	No. I	Basis of this opinion
1.	With filed	regard to the language, this opinion has been established on the basis of the international application in the language in which it was, unless otherwise indicated under this item.
		This opinion has been established on the basis of a translation from the original language into the following language which is the language of a translation furnished for the purposes of international search (under Rule 12.3 and 23.1(b)).
2.	With	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed nation, this opinion has been established on the basis of:
	a.	type of material a sequence listing table(s) related to the sequence listing
	b.	format of material
		in written format in computer readable form
	c.	time of filing/furnishing
		contained in the international application as filed.
		filed together with the international application in computer readable form. furnished subsequently to this Authority for the purposes of search.
3.		In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Addi	tional comments:
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2004/017306

citations and explanations supporting such statement			cy, inventive step or industrial applicability:		
1.	Statement				2
	Novelty (N)	Claims	1-112	<u>'id</u>	YES YES
		Claims		*	NO NO
	Inventive step (IS)	Claims	1-112		YES
		Claims			NO
	Industrial applicability (IA)	Claims	1-112		YES
		Claims			NO NO
2.	Citations and explanations:				

Document 1: Nucleic Acids Research, Vol. 32, No. 21 (2004) e169

Document 2: Nucleic Acids Research, Vol. 31, No. 21 (Aug. 2003) e78

Document 3: J. Biol. Chem., Vol. 276, No. 4 (2001), p. 2852-2857

Document 4: Oncogene. Vol. 20, No. 19, (2001), p. 2438-2452

Document 5: FEBS LETTERS, Vol. 414, (1997), p. 405-408

Document 6: Proc. Natl. Acad. Sci. USA, Vol. 94, (1997), p. 12297-12302

Document 7: WO 02/48347 A1 (UNIV. KEIO) 20 June, 2002 (20.06.02)

Document 8: JP 11-322781 A (MTSUBISHI CHEM. CORP.) 24 November, 1999 (24.11.99)

The invention described in the subject matters of claims 1-112 appear to be novel and involve an inventive step because it is disclosed in none of the aforementioned documents 1-8 cited in the ISR.